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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/765,914	01/18/2001	Galen Mark Gareis	6500-1583.2	8471
75	90 12/02/2004		EXAM	INER
ROBERT F. I. CONTE			MAYO III, WILLIAM H	
LEE, MANN, SMITH, MCWILLIAMS, SWEENEY & OHLSON P.O. BOX 2786			ART UNIT	PAPER NUMBER

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commons	09/765,914	GAREIS ET AL.			
Office Action Summary	Examiner	Art Unit			
	William H. Mayo III	2831			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 08 No.	ovember 2004.				
2a) This action is FINAL . 2b) ⊠ This	action is non-final.				
3) Since this application is in condition for allowar closed in accordance with the practice under E	•				
Disposition of Claims					
4) ☐ Claim(s) 14,16 and 17 is/are pending in the appearance of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 14,16 and 17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	г.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correcti					
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the prior application from the International Bureau 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
oce the attached detailed Office action for a list (or the certified copies flot receive	u.			
Attachment(s)	,				
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite atent Application (PTO-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 8, 2004 has been entered.

Specification |

2. The disclosure is objected to because of the following informalities: The specification is objected to because under the heading "Brief Description of the Drawings" and "Detailed Description", there is no mention of Figure 1A. The applicant should insert the proper description of Figure 1A under the Brief and Detailed Description.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 14 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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- 5. Claim 14 recites the limitation "each open area" in line 11, which is confusing and renders the claim indefinite. It is unclear what open area the applicant is referring to since the previous lines of the claim doesn't mention or detail the actual structure of the open area. If the applicant is referring to a new open area, then he/she should make the term more distinguishable by detailing the open area.
- 6. Claim 17 recites the limitation "each open area" in line 1, which is confusing and renders the claim indefinite. It is unclear what open area the applicant is referring to since the previous lines of the claim doesn't mention or detail the actual structure of the open area. If the applicant is referring to a new open area, then he/she should make the term more distinguishable by detailing the open area.

Double Patenting

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory

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double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

8. Claims 14 and 16-17 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,222,130. Although the conflicting claims are not identical, they are not patentably distinct from each other because US Patent 6,222,130 fully encompasses all of the claim limitations of the claimed invention.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

 Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of

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35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

11. Claims 14 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arrovo et al (Pat Num 4.807.962, herein referred to as Arrovo) in view of Tessier et al (Pat Num. 5,132,488, herein referred to as Tessier) and Tash et al (Pat Num. 5,329,064). Arroyo et al discloses a high performance data cable (Figs 1-2 & 4-5, fiber optic cable) for use in buildings and offices (Figs 6 & 7) having a plurality of insulated conductors (79), a cable covering (50). Specifically, with respect to claim 14, Arroyo et al discloses a data cable (20) comprising an interior support (22) being unshielded and having a longitudinally extending central portion (24) forming a portion of the support (22), a plurality of projections (26) extending from the central portion (24) wherein each of the projection (26) of the plurality of projections (26) being adjacent with at least two other projections (26) of the plurality of projections (26) forming a plurality of adjacent projections (26, Figs 2 & 5), a cable covering (50) contacting the projections (26, Fig 2), wherein the conductors (79) are disposed in an open region (28, Fig 2). With respect to claim 16, Arroyo discloses that the projections (26) are arms (Fig 2). With respect to claim 17, Arroyo discloses that the open area (28) is selected from a groove (28).

Arroyo et al doesn't necessarily disclose that the electrical conductors being twisted pairs wherein one of the twisted pair conductors is disposed in the open area (Claim 4).

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Tessier et al teaches a signal transmission cable (Figs 2-3) that maintains the distances between adjacent pairs, substantially thereby decreasing the induced voltages between the pairs so that the induced voltages are substantially equal which in return, minimizes the cross-talk between adjacent pairs comprising an interior support (i.e. spacer-Figs 2-3). Specifically, with respect to claim 14, Tessier teaches a cable (40) which has four twisted pairs (14) wherein each twisted pair is disposed within an individual recess (i.e. open area 48).

It would have been obvious to one having ordinary skill in the art of cables at the time the invention was made to modify the electrical conductors of Arroyo to comprise the twisted conductor pair configuration as taught by Tessier because Tessier et al teach that such a configuration maintains the distances between adjacent pairs, substantially thereby decreasing the induced voltages between the pairs so that the induced voltages are substantially equal which in return, minimizes the cross-talk between adjacent pairs (Col. 2, lines 51-66).

Arroyo also doesn't disclose the cable covering being a laterally folded shield (Claim 14).

Tash teaches a cable (Fig 2) for use as a telecommunication cable (Col. 1, lines 34-37), that comprising a cable covering (20) having a configuration that is well known in the art of cables for providing a fairly adequate shield protection at low, middle, and high frequencies (Col 1, lines 10-24). Specifically, with respect to claim 14, Tash teaches a cable (10) comprising a cable covering (20), wherein the cable covering (20) is laterally applied in the well-known configuration of a Z-Fold (Col 2, lines 21-24, Fig 3).

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It would have been obvious to one skilled in the art of cable at the time of the invention to modify the cable of Arroyo et al to comprise an cable covering having Z-Fold as taught by Tash because Tash teaches that such a configuration is well known in the art of cables for providing a fairly adequate shield protection at low, middle, and high frequencies (Col 1, lines 10-24) and since it has been held that a change in form cannot sustain patentability where involved is only extended application of obvious attributes from a prior art. *In re Span-Deck Inc.* vs. Fab-Con Inc. (CA 8, 1982) 215 USPQ 835.

Response to Arguments

12. Applicant's arguments filed November 8, 2004 with respect to claims 14 and 16-17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. They are Kincaid (Pat Num 4,327,246) and Timmons (Pat Num 3,032,604), both of which disclose the Z-fold (i.e. longitudinally wrapped cable covering) of the cable covering.

Communication

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Mayo III whose telephone number

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is (571)-272-1978. The examiner can normally be reached on M-F 8:30am-6:00 pm (alternate Fridays off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (571) 272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
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WHM III November 21, 2004